

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		I. CONTRACT ID CODE <b>FFP</b>	PAGE <b>1</b>	OF <b>3</b>	PAGES
2. AMENDMENT/MODIFICATION NO. <b>Amendment #01</b>	3. EFFECTIVE DATE <b>11 Jan 2010</b>	4. REQUISITION/PURCHASE REQ. NO. <b>4200323170</b>	5. PROJECT NO. (If applicable) <b>N/A</b>		
6. ISSUED BY <b>NASA Dryden Flight Research Center Acquisition Management Office PO Box 273, Mailstop 1422 Edwards, CA 93523-0273</b>		7. ADMINISTERED BY (If other than Item 6) CODE			
8. NAME AND ADDRESS OF CONTRACTOR (No. Street, county, State and ZIP Code)  <b>TO ALL PROSPECTIVE OFFERORS</b>		[ X ]	9A. AMENDMENT OF SOLICITATION NO. <b>NND10323170R</b>		
		X	9B. DATED (SEE ITEM 11) <b>12/17/2009</b>		
			10A. MODIFICATION OF CONTRACT/ORDER NO.		
			10B. DATED (SEE ITEM 13)		
CODE	FACILITY CODE				

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☒ is extended, ☐ is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning one (1) copy of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATA SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and data specified.

**12. ACCOUNTING AND APPROPRIATION DATA (If required)****N/A****13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

[ X ]	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER: (Specify type of modification and authority)

**E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return one (1) copies to the issuing office.****14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)**

See Page 2 of this amendment for description.

Except at provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
		<b>Brian G. Bowman, Contracting Officer</b>	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		BY (Signature of Contracting Officer)	

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14. Continued:

- A. The solicitation number for this requirement is hereby changed from "NND10AH17C", to "NND10323170R".
- B. The following Government answers to questions are provided for the information of prospective offerors in preparing their technical proposals:

Question #1: Section 2.1.3: Must the system be capable of meeting the specification for flow in continuous (i.e. 24 hours/day, 7 days/week), or is the flow intermittent? If it is intermittent, what is the operating cycle?

Answer #1: The flow is continuous only during test operations. Typical test operations last about five (5) hours but can be as long as eight (8) hours. During a typical test program, a test operation may occur 2-3 times a week for a period of two (2) months. We may run two (2) test programs a year.

Question #2: Section 2.1.3.1: Volume flow rates, pressures and temperatures and temperatures are required to be adjustable. While it is clear that the pressure must be controlled at 100 psig (+/-10 psi), the requirements for flow rate and temperature as not clear. Please clarify the required degree of adjustment and control for flow rate and temperature. For example, is 1000 SCFM plus or minus 10% adequate? Regarding temperature, is an exit temperate anywhere in the range of -60 to +80 degrees F acceptable, or must the system be capable of controlling at a specific temperature in that range? If it is the latter, what is the tolerance on temperature variability?

Answer #2: Replace Section 2.1.3.1 with the following statement: "Pressures and temperature are required to be adjustable." We understand that the actual delivered volume flow rate will depend on the set pressure, temperature and downstream plumbing. A volume flow rate of 1000 SCFM +/-5% is only required at the 100 psig (+/-10psi) condition. The temperature must be controlled to a user defined specific temperature. The tolerance on the temperature control is +/- 10°F.

Question #3: Section 2.1.8: Please confirm the requirements for the fill connection. This paragraph calls for a 2-1/2" fitting. Standard commercial delivery trailers are equipped with 1-1/2" fill hoses. Also, please confirm that the Nitrogen Connection No. NI-25 is correct. We are familiar with Nitrogen Connection No. NI-250 for a 2-1/2" connection and suspect that the reference to NI-25 may be a typographical error.

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14. B. Continued:

Answer #3: I understand that commercial delivery trailers are equipped with 1-1/2" fittings. We require a 2-1/2" fill/drain connection because we have a manifold system with a 2-1/2" fitting that we want to connect directly to the fill/drain connection. We will purchase an adapter to interface with delivery trailers. You are correct the SOW should read NI-250 and not NI-25.

Question #4: Section 2.2.4: Please clarify the scope of the review and approval by a California Licensed Professional Engineer. Specifically, is the review and approval related to the ability of the system to meet seismic requirements only, or is the process design also within the scope of this review?

Answer #4: No review of the process design is required.

Question #5: Section 3.1.4: Please confirm that outline drawings and P&IDs will meet the requirements of this section.

Answer #5: Yes, outline drawings and P&IDs will meet the requirements of this section.

C. The due date for technical proposals is hereby extended to "January 20, 2010 (4:00PM PST)".

(END OF AMENDMENT)